

Date: Fri, 30 Apr 93 11:34:16 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #521
To: Info-Hams

Info-Hams Digest Fri, 30 Apr 93 Volume 93 : Issue 521

Today's Topics:

 2M HT FOR SATELLITE WORK
 About TH-78 mods
 FCC Rules on Transmission
 Helical filters for HT's
 IC290
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 Shuttle Frequencies?
 Standard 12 VDC Connectors
 Sueing Jammers (Was: Re: "Busting" Jammers)
 TS-50 Accessories
 X-tal filter 75 MHz

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Fri, 30 Apr 1993 15:10:23 GMT
From: usc!sdd.hp.com!nigel.msen.com!yale.edu!news.yale.edu!hilbert.chem.yale.edu!
oswood@network.UCSD.EDU
Subject: 2M HT FOR SATELLITE WORK
To: info-hams@ucsd.edu

In article <2756.2bdfc597@atlas.nafb.trw.com>, rwartburg@atlas.nafb.trw.com writes:

|> I HAVE HEARD THAT IT IS POSSIBLE TO SEND CW BY KEYING THE MIC INPUT OF A 2M HT.
|> THIS WOULD ALLOW AN UPLINK TO ONE OF THE RS SATELLITES IN MODE A. HAS ANYONE
|> TRIED THIS? TNX BOB KOLLO
|>

I tried this a few months ago. I could easily hear the RS10 mode A downlink on my Radio Shack DX440 shortwave receiver. However, when I keyed my IC02AT next to it, it overloaded the receiver and I was not able to determine if my signal was present on the downlink. Using a remote antenna (other than the built in whip) on the sw receiver may have helped, but I just gave up at the time. Note that this method produces a MCW signal rather than a true CW signal. It can lead to a very raspy note coming back on the downlink, according to a friend (N40GW) who has successfully done this. Also, the limited tuning ability of most handhelds (5 kHz) will limit your ability to compensate for doppler shift. But it's probably still worth trying as an inexpensive way to try out the satellite. I wouldn't buy an HT just for this purpose, however. For more info, consult an article in QST last year call 'Working the Easy Satellites' (sorry don't remember issue).

Mark C. Oswood N1NXW/AA oswood@psun.chem.yale.edu
 or moswood@biomed.bitnet

Date: 30 Apr 1993 09:05 CDT
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!
zaphod.mps.ohio-state.edu!cs.utexas.edu!tamsun.tamu.edu!venus.tamu.edu!
ami9667@network.UCSD.EDU
Subject: About TH-78 mods
To: info-hams@ucsd.edu

Hi folks:

I have purchased a new TH-78 and tried to do the mods. According to the mods there should be 6 diodes under the shield. Mine has only 5. Anyway I removed #4(cross-band) and #5(extended RX) but when I try to remove #3(extended TX) I loose the extended RX and the TX is not the range it should be. Did anyone have the same problem ? Any recommendations will be appreciated.

Andreas - 5B4SJ/W5

Date: 29 Apr 93 21:47:45 EST
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!

zaphod.mps.ohio-state.edu!pacific.mps.ohio-state.edu!ohstpy!miavx1!
miavx3.mid.muohio.edu!clmorgan@network.UCSD.EDU
Subject: FCC Rules on Transmission
To: info-hams@ucsd.edu

In article <95338@hydra.gatech.EDU>, gt0701b@prism.gatech.EDU (Jim Hancock) writes:

> A ham buddy of mine told me that if operating on simplex as
> long as you are transmitting under 1W that anyone, licensed or not,
> can talk on these frequencies and even if you are licensed, do not
> have to identify.
>
> Does anybody know if this is true and what is the rule?
>
> 73
>
> Jim
> KD4ZYS
>

Not true. 'Tis likely you'd never be caught, but, that wasn't what you asked.

The FCC does allocate a few frequencies to be used for restricted radiation devices ... none of them are in the ham bands.

73 >< Carl
K8NHE

Date: 30 Apr 93 08:19:31 PDT
From: ucla-mic!MVS.OAC.UCLA.EDU!CSMSMAS@locus.ucla.edu
Subject: Helical filters for HT's
To: info-hams@ucsd.edu

In article <1rqghd\$oiik@cc.tut.fi>, k23690@lehtori.cc.tut.fi (Kein{nen Paul) writes:

>An added benefit is that this filter reduces harmonics from the
>transmitter.

Only some harmonics, right? Helical filters are not "normal" LC filters, they are really squashed transmission line filters. So a 1/4 wavelength will be 3/4 wavelength at 3 times the frequency and I would expect this harmonic to pass the filter.

Date: Wed, 28 Apr 1993 17:01:10 +0000
From: pipex!warwick!qmw-dcs!qmw!demon!cix.compulink.co.uk!dplumb@uunet.uu.net
Subject: IC290
To: info-hams@ucsd.edu

Didn't receive any responses to my request for Icom IC290 mods for frequency expansion, if anyone was holding back the first time, I'd be grateful to hear from you!

```
+-----+-----+-----+-----+
| Dave Plumb | Internet: dplumb@cix.compulink.co.uk | Fido: 2:252/21.27 |
| Enfield, UK | Packet : G7MIL @ GB7HSN.#32.GBR.EU  +-----+
+-----+-----+-----+-----+
```

Date: Fri, 30 Apr 1993 11:26:32 GMT
From: usc!howland.reston.ans.net!darwin.sura.net!news-feed-1.peachnet.edu!nscf!
sam@network.UCSD.EDU
Subject: KF4WQ where are you?
To: info-hams@ucsd.edu

Sorry for this method of post, but I need to find his e-mail address ..

Rick, if you read this, drop me a note with your address .. send it to
sam@wa4phy.async.com, or sam@galois.nscf.org

Thanks for the bandwidth

sam
--

Sam Drinkard

Date: Fri, 30 Apr 1993 14:32:38 GMT
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!
ux1.cso.uiuc.edu!usenet.ucs.indiana.edu!silver.ucs.indiana.edu!
brandtk@network.UCSD.EDU
Subject: NASA Select Rebroadcast Help
To: info-hams@ucsd.edu

My TVRO system should be planted in the ground as I type. I would like to set up to re-transmit the NASA Select audio and/or video. I need the net's help with a couple of matters:

- 1) I need the address of the NASA office to contact for permission to retransmit the broadcasts. I dumped my old QSTs in my recent move, so I can't directly refer to the (?Nov 82) issue for that article.
- 2) What kind of VOX/ID unit are people using for audio? Repeater controller or homebrew?
- 3) How about ATV systems? There was a booth at Dayton advertising 'Shuttle video on ATV', but I didn't get to them (that was before I knew I would be getting my TVRO system this quick!)

All help appreciated.

73, Keith

```
=====
Keith E. Brandt, MD, WD9GET      || Goodbye, cruel world that was my home-
Family Practice Resident        || there's cleaner space out here to roam.
Community Hosp. of Indianapolis || Put my feet up on the moons of Mars-
brandtk@silver.ucs.indiana.edu  || sit back, relax, and count the stars.
=====
```

Date: Thu, 29 Apr 1993 17:23:32 EST
From: anomaly.sbs.com!n1mpq!news@uunet.uu.net
Subject: no-code defense
To: info-hams@ucsd.edu

ez006683@othello.ucdavis.edu (Daniel D. Todd) writes:

```
> best argument for a good kill file I've seen in a long time.  Guess
> its time to just start ignoring this one.  I realize there is an argument
> to be made on both sides of the issue and in no way hold this idiots
> remarks against anyone else who happens to hold an extra class license
> Dan
> --
```

Cool idea.. I've been squelching out the whining no-codes for awhile now.

Tony

-- Anthony S. Pelliccio, kd1nr/ae // Yes, you read it right, the //
-- system @ garlic.sbs.com // man who went from No-Code //
-----// (Thhhppptt!) to Extra in //
-- Flame Retardent Sysadmin // exactly one year! //

-- This is a calm .sig! --

Date: Fri, 30 Apr 1993 14:53:55 CET
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!
newsserver.jvnc.net!gmd.de!dearn!esoc!wkoehler@network.UCSD.EDU
Subject: Postal rates from Germany
To: info-hams@ucsd.edu

Posted an airmail letter during my lunch break. It shocked me to learn that there is now only one rate for airmail letters from Germany to destinations outside of Europe (apart from a few French overseas possessions). Before April 1st it used to be between 1.70 and 2.40 Deutschmarks (1.03 to 1.45 US\$), now it's 3.00 Deutschmarks (1.82 \$), no matter where to. Please bear that in mind when you ask for a direct card from Germany.

73 & DX, Wolf
DL3ZBJ, AB6EL, VK6BGV.

Date: 30 Apr 1993 14:01:09 GMT
From: usc!cs.utexas.edu!tamsun.tamu.edu!TAYLOR.TAMU.EDU!gtaylor@network.UCSD.EDU
Subject: QRP Mailing List?
To: info-hams@ucsd.edu

In article <930426190730_76703.3035_CHN84-1@CompuServe.COM>
76703.3035@CompuServe.COM (Steve Silverwood [CA]) writes:
>From: 76703.3035@CompuServe.COM (Steve Silverwood [CA])
>Subject: QRP Mailing List?
>Date: 26 Apr 93 19:07:31 GMT
>I saw reference in another message to a QRP mailing list. I would like
>details on this, including an address to which I could send a subscription
>request.

qrp-request@think.com

72, Greg
Greg Taylor, KD4HZ // g-taylor4@tamu.edu // 409-845-4445 // Fax-847-8744

Date: Fri, 30 Apr 93 15:31:09 GMT
From: pipex!uknet!warwick!nott-cs!unicorn!eeyimkn@uunet.uu.net
Subject: Right, that's it..
To: info-hams@ucsd.edu

Hi folks,
Right, that's it. I've had enough of the ridiculous flamewars, slagging off of people just because they don't happen to have 12wpm CW, bigotry and general lack of amateur spirit on this group.

Excuse me while I unsubscribe.

73
Mike

--
+-- ==- If infants can have infancy, why can't adults have adultery? ==- ----+
\----- Mike Knell, Willoughby Hall, University of Nottingham, I092JX -----/
\ AMPRnet: mikee@g7gpa.ampr.org ==- Internet: eeyimkn@unicorn.nott.ac.uk /
\ 'oh well, whatever, nevermind...' ==- AX25: G7GPA@GB7BAD.#23.GBR.EU /

Date: Fri, 30 Apr 1993 14:03:11 GMT
From: pacbell.com!pbhyf!sjhawk2@network.UCSD.EDU
Subject: Scanner mods
To: info-hams@ucsd.edu

I purchased a new scanner at Radio Shack this last weekend.
I seemed to be a new model and it was on Sale.
The model is a Pro-2080. It was cheap, it is small and so far
anyway it has worked pretty well. Does anyone know any thing
about this model? Are there any mods or tricks to it's operation
that anyone might know about?

Thanks Steve WV6U

Date: 30 Apr 93 08:33:49 EDT
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!
darwin.sura.net!udel!news.intercon.com!psinnntp!pbs.org!jernandez@network.UCSD.EDU
Subject: Shuttle Frequencies?
To: info-hams@ucsd.edu

Does anyone know the space-to-earth radio frequencies for the shuttle?
I seem to recall they were in the 296 MHz range. Are these frequencies still
still in uses or were they done away with since TDRSS?

TNX
John
KA2YAP

Date: 30 Apr 93 15:25:34 GMT
From: news-mail-gateway@ucsd.edu
Subject: Standard 12 VDC Connectors
To: info-hams@ucsd.edu

>>>male body and vice-versa. Use male bodies on power sources and female
>>>bodies on radios, since the pins in un-plugged female bodies could
>>>accidentally be shorted together. (humor shields, UP!)

>
>Shouldn't the rolls of "male" and "female" be switched here? I would think
>you would want the female connector to be attached to the power source.
>[Or have I misread the above]

>
>NH6IL

I think that I wrote it correctly, but they didn't have sex ed where I went
to high school so I might be wrong. When you look at the connectors you can
see the proper way to do it.

(Extra text added here to fool the stupid mailer. Extra text added here to
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Extra text added here to fool the stupid mailer. Extra text added here to
fool the stupid mailer.)

Miles Abernathy, N5K0B, miles@emx.cc.utexas.edu

Date: 30 Apr 93 07:17:56
From: idacrd.ccr-p.ida.org!idacrd!n4hy@uunet.uu.net
Subject: Sueing Jammers (Was: Re: "Busting" Jammers)
To: info-hams@ucsd.edu

>For instance, what would it take to sue someone who you can "prove" was
>jamming the repeater? What "evidence" would be necessary to "prove" your
>case in a civil court (since it is a preponderance of evidence and not

>beyond-a-reasonable-doubt)?

Civil law is quite different from criminal law. Beyond a reasonable doubt is NOT required. There is not presumption of innocence and in many instances the burden of proof is on the DEFENDANT. That is part of what discovery periods are about in civil suits. If you refuse to prove you are innocent, the judge in the civil case can award summary judgement for the plaintiff without your ever having your day in court. The plaintiff will never have to present one shred of evidence. I am NOT a lawyer so you should consult one but as I understand this is one of the best forms of harassment in US jurisprudence and frivolous lawsuits abound, almost without retribution, even though technically there is redress for frivolous lawsuits. Seems like something to consider if you have some evidence.

BMc

--

Robert W. McGwier | n4hy@ccr-p.ida.org
Center for Communications Research | Interests: amateur radio, astronomy, golf
Princeton, N.J. 08520 | Asst Scoutmaster Troop 5700, Hightstown

Date: Fri, 30 Apr 1993 15:15:55 GMT
From: netcomsv!attain!icd.teradyne.com!news@decwrl.dec.com
Subject: TS-50 Accessories
To: info-hams@ucsd.edu

In article <1rk97j\$qp@gdls.gdls.com> turini@gdls.com (Bill Turini) writes:
-I called a Ham radio store (name escapes me) to check on the availability of
-accessories for the TS-50 and what you actually needed to operate the gear.
-I was told that the CW xtal filters weren't in the country yet, nor was the
-txco or the antenna tuner.

I just got my TS50S last week. The CW filter was back ordered, and arrived a few days later. I don't know about the other accessories. The TS50 worked fine out of the box; all I had to add was 13.8 volts and an antenna. (BTW, I ordered it from Texas Towers)

/mike

--

\\| Michael L. Ardai N1IST Teradyne ATG Boston

/|\ ardai@maven.dnet.teradyne.com

Date: Fri, 30 Apr 1993 14:13:19 GMT
From: usc!sdd.hp.com!apollo.hp.com!hpwin052!hpqmoea!dstock@network.UCSD.EDU
Subject: X-tal filter 75 MHz
To: info-hams@ucsd.edu

I was guessing a bit about the exact application. I suspect it is an attempt to fix one of those rigs which show 2nd mixer intermod problems with signals passing through the 1st IF bandwidth. Narrowing the first filter will help, of course, but often the real problem is in having a very nasty 2nd mixer. Substituting a better mixer, along with a suitable LO port driver would likely yield better results and be affordable.

As far as crystal filters are concerned, things have progressed to the point where we can build affordable mixers with better intermod performance than the usual, available, crystal filters. This changes the optimum game-plan for a state of the art HF receiver somewhat. It appears that lower frequency filters are better for dynamic range. Their insertion loss is low, so there is an advantage in the noise floor direction, and the resonant energy is spread over a larger lump of quartz, giving an advantage in the big signal direction.

Some commercial filters have been found to have been spoiled by their designers forgetting about the effects of non-linearity in inductors and transformers used in the input stages. Some of the 1.4 MHz (Ex marine) filters now flooding the UK surplus market are very good indeed, although I've come across some that showed worthwhile improvement by re-doing their input transformer. I've built up a large collection of these, at a few pounds each, for my homebrew transceiver project.

To get to a 1.4 MHz final IF forces a choice:

Either mix straight to 1.4 MHz, and develop a wonderful preselector to give the required image rejection.

Or Use a double superhet with a high first IF and have a serious difficulty finding a first IF filter to give sufficient rejection of the 2.8MHz away image of the 2nd mixer and still not limit the intermod performance.

I've been lucky, I bought a surplus box of special low distortion 15kHz wide filters at 68.6 MHz that had been made for a very high performance RX project that had been cancelled by a military/spook RX

manufacturer, so I can have DC-30MHz RX coverage, but I'm planning a serious preselector as well !

The day is coming when the highest performance receivers will again be all LC filtered, not a crystal filter in sight. There is a race on, though, will the ADC and DSP approach there first?

Cheers

David GM4ZNX

Date: Thu, 29 Apr 1993 17:19:25 EST
From: anomaly.sbs.com!n1mpq!news@uunet.uu.net
To: info-hams@ucsd.edu

References <930424.090223.7D1.rusnews.w165w@garlic.sbs.com>,
<1993Apr26.042844.18653@nntpd2.cxo.dec.com>, <1rjma3\$9qg@network.ucsd.edu>
Subject : Re: no-code defense

jgervais@weber.ucsd.edu (Joe Gervais) writes:

> And to add my two bits...
>
> What bothers me in particular is that the original poster felt
> it necessary to "apologize" for their choice of license. C'mon
> folks, what have we been doing here? When I first got into ham
> radio I was told of a "close-knit community, supportive and
> friendly people." Trying to make other hams feel inferior really
> doesn't seem to fit that description.
>
> While I realize that the "no-code" bashers are an unfortunately
> vocal minority, if they have succeeded in putting legitimate
> hams on the defensive, then perhaps the rest of us haven't been
> doing our job.

Actually there's more than a minority. It's just that all this politically correct bullshit keeps some people from saying whats really on their minds. :)

> CW HF is all I work (SSB/voice bores me), but if I happened to
> like only VHF/UHF, who cares if I never want to learn code?
> Those who do care, shouldn't. Or should at least refrain from
> attacking other hams simply based on the comprehension of dits
> and dahs. We've got bigger problems (14.313 MHz comes to mind).
> Last month I had the unfortunate displeasure of hearing a ham

> radio shop employee tell a "fresh" tech that "13 wpm is what
> separates the men from the boys..." Give me a break! No wonder
> amateur radio almost shrivelled up and died! If I hadn't been
> late for an appointment, I would've loved spending the next
> hour hearing more about this fascinating theory.

I have no problem if all someone wants to do is work VHF/UHF, but just
do two things and I won't get upset:

a) good operating procedure

and

b) don't whine for things.

> Bottom line - my apologies to any Techs who've been put on
> the defensive. The people making the attacks are the same
> bozos who drive in the fast lane with their left turn signal
> on.

No, we're the ones behind you in the lefthand lane when you're doing
45MPH and flashing our beams like crazy. :)

Tony

```
-----  
-- Anthony S. Pelliccio, kd1nr/ae      // Yes, you read it right, the //  
-- system @ garlic.sbs.com           // man who went from No-Code  //  
-----// (Thhhppptt!) to Extra in    //  
-- Flame Retardent Sysadmin          // exactly one year!         //  
-----  
-- This is a calm .sig! --  
-----
```

Date: Fri, 30 Apr 1993 15:43:40 GMT
From: telesoft!garym@uunet.uu.net
To: info-hams@ucsd.edu

References <1993Apr28.162235.6011@alsys.com>, <1993Apr29.142121.2287@alsys.com>,
<1993Apr29.235021.10119@alsys.com>
Subject : STS-55 Element Set (120.30)

These are STS-55 elements for orbit 60, based on NORAD tracking data.
They were received from JSC thanks to Robert Kliman.

STS-55

```
1 22640U 93 27 A 93120.30674906 +.00044939 00000-0 12819-3 0 124
2 22640 28.4643 241.4620 0011261 285.4187 74.5180 15.91621586 603
```

Satellite: STS-55

Catalog number: 22640

Epoch time: 93120.30674906 (00 MAY 93 07:21:43.12 UTC)

Element set: GSFC-012

Inclination: 28.4643 deg

RA of node: 241.4620 deg Space Shuttle Flight STS-55

Eccentricity: 0.0011261 Keplerian Elements

Arg of perigee: 285.4187 deg

Mean anomaly: 74.5180 deg

Mean motion: 15.91621586 rev/day Semi-major Axis: 6675.8769 Km

Decay rate: 0.45E-03 rev/day*2 Apogee Alt: 305.01 Km

Epoch rev: 60 Perigee Alt: 289.97 Km

NOTE - This element set is based on NORAD element set # 012.

The spacecraft has been propagated to the next ascending
node, and the orbit number has been adjusted to bring it
into agreement with the NASA numbering convention.

R.A. Parise, Goddard Space Flight Center

G.L.CARMAN

--

Gary Morris KK6YB Internet: elements-request@alsys.com

San Diego, CA, USA Phone: +1 619-457-2700

(for Shuttle Elements subscription info, email: listserv@alsys.com)

End of Info-Hams Digest V93 #521
